

Attachment A

**NOTICE OF INTENT FOR NEW AND EXISTING DISCHARGERS**

**TO COMPLY WITH ORDER NO. R1-2006-0048  
GENERAL NPDES PERMIT NO. CAG911001**

**FOR DISCHARGES OF HIGHLY TREATED GROUNDWATER TO SURFACE  
WATERS FOLLOWING EXTRACTION AND CLEANUP OF GROUNDWATER  
POLLUTED WITH PETROLEUM HYDROCARBONS AND VOLATILE ORGANIC  
COMPOUNDS**

**I. FACILITY INFORMATION**

**A. Facility**

Name:			
Physical Address:			
City:	County:	State:	Zip Code:
Assessor's Parcel Nos.	Facility:	Discharge Point:	
Mailing Address:			
City:		State:	Zip Code:
Contact Person, Title:			
Telephone Number:	E-Mail Address:		

**B. Facility Owner**

Name:		
Mailing Address:		
City:	State:	Zip Code:
Telephone Number:	E-Mail Address:	

**C. Facility Operator**

Name:		
Mailing Address:		
City:	State:	Zip Code:
Telephone Number:	E-Mail Address:	

**D. Receiving Water**

Receiving Water:		
Discharge Point 001 Location	Latitude:	Longitude:
Discharge Point 002 Location	Latitude:	Longitude:
Discharge Point 003 Location	Latitude:	Longitude:

**E. Location Map and Site Drawing**

Attach a Location Map, which shows topography of the area extending at least one mile beyond the facility boundaries, including the proposed discharge point(s) and all surface waters, and a Site Drawing, which is descriptive of the site of the pump-and-treat operation and shows the path of the discharge from the treatment facility to the receiving water, including any storm sewers or ditches through which the discharge might travel.

**II. PROJECT DESCRIPTION**

Provide a full description of the proposed pump-and-treat project, including, at a minimum:

- A. Background information – the origin of groundwater contamination, a description of the local hydrogeology, and the lateral and vertical extent of groundwater contamination;
- B. The status of the groundwater investigation, including definition of free product and dissolved phase plumes;
- C. Copies of directives from the Regional Water Board and other governmental agencies requiring cleanup of contaminated groundwater; and
- D. Description of the groundwater collection and treatment system, including treatment technologies and anticipated rates of pumping, storage, treatment, and discharge.
- E. Alternative disposal options for the discharge shall be adequately assessed to demonstrate that no feasible disposal alternatives are available.
- F. Other information necessary to demonstrate eligibility as defined in section I.C of this permit.

Identify other environmental and land use permits which have been issued or which are required for operation of the pump-and-treat facility.

### III. CHARACTERIZATION FOR PRIORITY POLLUTANTS

To be considered by the Regional Water Board for authorization to discharge under the terms of the General Permit, new Dischargers must have analyzed both the receiving water and contaminated/untreated groundwater at least one time in the 18 month period prior to submittal of this NOI for all groups of pollutants and pollutant parameters listed below, in accordance with U.S. EPA approved analytical methods at 40 CFR Part 136 – *Guidelines Establishing Test Procedures for the Analysis of Pollutants*.

For existing dischargers who have previously discharged treated groundwater under an individual permit or under Order No. R1-2001-9, analyses for CTR and Title 22 pollutants conducted on the receiving water and on effluent from an existing groundwater treatment system conducted within the past five years may be used to demonstrate eligibility for coverage under this Order.

CTR Pollutants	The toxic pollutants listed by the California Toxics Rule (CTR) at 40 CFR 131.38
Title 22 Pollutants	The pollutants with drinking water primary maximum contaminant levels (MCLs) established by the State Department of Health Services at Title 22 of the California Code of Regulations, Division 4, Chapter 15, Article 4 (Primary Standards – Inorganic Chemicals) and Article 5.5 (Primary Standards – Organic Chemicals)
Fuel Oxygenates	Methyl tertiary-butyl ether (MTBE) Di-isopropyl ether (DIPE) Tertiary-amyl methyl ether (TAME) Ethyl tertiary-butyl ether (ETBE) Tertiary-butyl alcohol (TBA) Methanol Ethanol
TPH	Total petroleum hydrocarbons

Using the data format shown in Table Nos. 1 – 3 at the back of this NOI form, provide a full characterization of both the receiving water and either contaminated/untreated groundwater (for new dischargers) or the treatment system effluent (for existing dischargers). . The characterization shall include:

- A. The number of times that receiving water and contaminated/untreated groundwater or treatment system effluent have been sampled and analyzed for each pollutant within the past five years.
- B. Analytical results for each pollutant, including:
  1. The method detection limit (MDL) reported by the analytical lab. If more than one MDL has been reported for a pollutant, state the range of MDLs that has been reported.

2. The Reporting Limit (RL) or the Reporting Detection Limit (RDL) reported by the analytical lab. If more than one RL or RDL has been reported for a pollutant, state the range of RLs or RDLs that has been reported.
3. The highest reported concentration of each pollutant. State “ND” if all analytical results have been reported as non-detectable (ND). Indicate when a measured concentration was estimated or detected but not quantified (DNQ) by the lab.

C. Several individual pollutants are listed as CTR pollutants, as Title 22 pollutants, and as Fuel Oxygenates. Redundant analyses for those pollutants are not required for compliance with the groundwater characterization directives contained in this section of the NOI. The lists are presented to assist the analytical labs in their identification of analytical requirements.

#### IV. RECEIVING WATER CHARACTERIZATION

Receiving Water:		
Receiving Water Hardness (mg/L CaCO <sub>3</sub> )	Min:	Max:
Are there water quality objectives established by Section 3 of the Basin Plan, as listed in Attachment B of this Order, specifically for the receiving water for total dissolved solids, specific conductance, dissolved oxygen, pH, hardness, and/or boron?		
Is the receiving water listed as impaired pursuant to Section 303 (d) of the Clean Water Act? If yes, for what pollutants?		
Is the receiving water part of an outstanding national, state, or local resource, such as a national or state park, wildlife refuge, or an area of exceptional recreational or ecological significance? If yes, please identify:		
What is the applicable water quality objective for temperature for the receiving water, as identified by the Basin Plan?		

#### V. PLANS, REPORTS, MANUALS

New dischargers seeking coverage under the General Permit for the first time shall submit to the Regional Board as attachments to this NOI form the following documents and materials required by Section VI. C. 2 of Order No. R1-2006-0048.

- Toxicity Reduction Evaluation Workplan
- Operation and Maintenance Manual
- Engineering Design Report.

**VI. CERTIFICATION**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice of Intent and all attachments, and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the Notice of Intent, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name and Title (type or print)	Signature	Date Signed
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## GROUNDWATER AND RECEIVING WATER CHARACTERIZATION

<b>Table 1 - CTR Pollutants in Untreated/Contaminated Groundwater</b>						
<b>Pollutant</b>	<b>CAS No.</b>	<b>No. of Analyses</b>	<b>Analytical Results (µg/L)</b>			<b>ML (µg/L)</b>
			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
Antimony	7440360					0.5
Arsenic	7440382					1.0
Beryllium	7440417					0.5
Cadmium	7440439					0.25
Chromium <sup>+3</sup>	7440473					-
Chromium <sup>+6</sup>	18540299					5.0
Copper	7440508					0.5
Lead	7439921					0.5
Mercury	7439976					0.2
Nickel	7440020					1.0
Selenium	7782492					1.0
Silver	7440224					0.25
Thallium	7440280					1.0
Zinc	7440666					1.0
Cyanide	57125					5.0
Asbestos	1332214					-
2,3,7,8 TCDD (Dioxin)	1746016					
Acrolein	107028					2.0
Acrylonitrile	107131					2.0
Benzene	71432					0.5
Bromoform	75252					0.5
Carbon Tetrachloride	56235					0.5
Chlorobenzene	108907					0.5
Chlorodibromomethane	124481					0.5
Chloroethane	75003					0.5

<b>Table 1 - CTR Pollutants in Untreated/Contaminated Groundwater</b>						
<b>Pollutant</b>	<b>CAS No.</b>	<b>No. of Analyses</b>	<b>Analytical Results (µg/L)</b>			<b>ML (µg/L)</b>
			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
2-Chlorethylvinyl Ether	110758					1.0
Chloroform	67663					0.5
Dichlorobromomethane	75274					0.5
1,1 Dichloroethane	75343					0.5
1,2 Dichloroethane	107062					0.5
1,1 Dichloroethene	75354					0.5
1,2 Dichloropropane	78875					0.5
1,3 Dichloropropylene	542756					0.5
Ethylbenzene	100414					0.5
Methyl Bromide	74839					1.0
Methyl Chloride	74873					0.5
Methylene Chloride	75092					0.5
1,1,2,2 Tetrachloroethane	79345					0.5
Tetrachloroethylene	127184					0.5
Toluene	108883					0.5
Trans-1,2 Dichloroethylene	156605					0.5
1,1,1 Trichloroethane	71556					0.5
1,1,2 Trichloroethane	79005					0.5
Trichloroethylene	79016					0.5
Vinyl Chloride	75014					0.5
2 Chlorophenol	95578					2.0
2,4 Dichlorophenol	120832					1.0
2,4 Dimethylphenol	105679					1.0
4,6 Dinitro-2-methylphenol	534521					5.0
2,4 Dinitrophenol	51285					5.0
2 Nitrophenol	88755					10
4-Nitrophenol	100027					5.0

<b>Table 1 - CTR Pollutants in Untreated/Contaminated Groundwater</b>						
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			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
4-Chloro-3-Methylphenol	59507					1.0
Pentachlorophenol	87865					1.0
Phenol	108952					1.0
2,4,6 Trichlorophenol	88062					10
Acenaphthene	83329					0.5
Acenaphthylene	208968					0.2
Anthracene	120127					2.0
Benzydine	92875					5.0
Benzo(a)Anthracene	56553					5.0
Benzo(a)Pyrene	50328					2.0
Benzo(b)Fluoranthene	205992					10
Benzo(g,h,i)Perylene	191242					0.1
Benzo(k)Fluoranthene	207089					2.0
Bis(2-Chloroethoxy)Methane	111911					5.0
Bis(2-Chloroethyl)Ether	111444					1.0
Bis(2-Chloroisopropyl)Ether	39638329					2.0
Bis(2-Ethylhexyl)Phthalate	117817					5.0
4-Bromophenyl Phenyl Ether	101553					5.0
Butyl Benzyl Phthalate	85687					10
2-Chloronaphthalene	91587					10
4-Chlorophenyl Phenyl Ether	7005723					5.0
Chrysene	218019					5.0
Dibenzo(a,h)Anthracene	53703					0.1
1,2 Dichlorobenzene	95501					2.0
1,3 Dichlorobenzene	541731					1.0
1,4 Dichlorobenzene	106467					1.0
3,3 Dichlorobenzidine	91941					5.0

<b>Table 1 - CTR Pollutants in Untreated/Contaminated Groundwater</b>						
<b>Pollutant</b>	<b>CAS No.</b>	<b>No. of Analyses</b>	<b>Analytical Results (µg/L)</b>			<b>ML (µg/L)</b>
			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
Diethyl Phthalate	84662					2.0
Dimethyl Phthalate	131113					2.0
Di-n-Butyl Phthalate	84742					10
2,4 Dinitrotoluene	121142					5.0
2,6 Dinitrotoluene	606202					5.0
Di-n-Octyl Phthalate	117840					10
1,2 Diphenylhydrazine	122667					1.0
Fluoranthene	206440					0.05
Fluorene	86737					0.1
Hexachlorobenzene	118741					1.0
Hexachlorobutadiene	87683					1.0
Hexachlorocyclopentadiene	77474					5.0
Hexachloroethane	67721					1.0
Indeno (1,2,3-cd) Pyrene	193395					0.05
Isophorone	78591					1.0
Napthalene	91203					0.2
Nitrobenzene	98953					1.0
N-Nitrosodimethylamine	62759					5.0
N-Nitrosodi-n-propylamine	621647					5.0
N-Nitrosodiphenylamine	86306					1.0
Phenanthrene	85018					0.05
Pyrene	129000					0.05
1,2,4 Trichlorobenzene	120821					1.0
Aldrin	309002					0.005
alpha-BHC	319846					0.01
beta-BHC	319857					0.005
Lindane (gamma-BHC)	58899					0.02

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			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
delta-BHC	319868					0.005
Chlordane	57749					0.1
4,4-DDD	72548					0.05
4,4-DDE	72559					0.05
4,4-DDT	50293					0.01
Dieldrin	60571					0.01
alpha-Endosulfan	959988					0.02
beta-Endosulfan	33213659					0.01
Endosulfan Sulfate	1031078					0.05
Endrin	72208					0.01
Endrin Aldehyde	7421934					0.01
Heptachlor	76448					0.01
Heptachlor Epoxide	1024573					0.01
PCBs	1336363					0.5
Toxaphene	8001352					0.5

<b>Table 2 - Title 22 Pollutants</b>						
<b>Pollutant</b>	<b>CAS No.</b>	<b>No. of Analyses</b>	<b>Analytical Results (µg/L)</b>			<b>DLR (µg/L)</b>
			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
Aluminum	7429905					50
Antimony	7440360					6.0
Arsenic	7440382					2.0
Asbestos	1332214					0.2 MFL > 10 µm
Barium	7440393					100
Beryllium	7440417					1.0
Cadmium	7440439					1.0
Chromium						10
Cyanide	57125					100
Fluoride	7782414					100
Mercury	7439976					1.0
Nickel	7440020					10
Nitrate (as N)	-					2,000
Nitrate + Nitrite (sum as N)	-					-
Nitrite (as N)	-					400
Selenium	7782492					5.0
Thallium	7440280					1.0
Benzene	71432					0.5
Carbon Tetrachloride	56235					0.5
1,2 Dichlorobenzene	95501					0.5
1,4 Dichlorobenzene	106467					0.5
1,1 Dichloroethane	75343					0.5
1,2 Dichloroethane	107062					0.5
1,1 Dichloroethene	75354					0.5

<b>Table 2 - Title 22 Pollutants</b>						
<b>Pollutant</b>	<b>CAS No.</b>	<b>No. of Analyses</b>	<b>Analytical Results (µg/L)</b>			<b>DLR (µg/L)</b>
			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
Cis-1,2 Dichloroethylene	156592					0.5
Trans-1,2 Dichloroethylene	156605					0.5
Methylene Chloride	75092					0.5
1,2 Dichloropropane	78875					0.5
1,3 Dichloropropylene	542756					0.5
Ethylbenzene	100414					0.5
Methyl-tert-butyl-ether	1634044					3.0
Monochlorobenzene	108907					0.5
Styrene	100425					0.5
1,1,2,2 Tetrachloroethane	79345					0.5
Tetrachloroethylene	127184					0.5
Toluene	108883					0.5
1,2,4 Trichlorobenzene	120821					0.5
1,1,1 Trichloroethane	71556					0.5
1,1,2 Trichloroethane	79005					0.5
Trichloroethylene	79016					0.5
Trichlorofluoromethane	75694					5.0
1,1,2 Trichloro-1,2,2 Trifluoroethane	76131					10
Vinyl Chloride	75014					0.5
Xylenes	1330207					0.5
Alachlor	15972608					1.0
Atrazine	1912249					0.5
Bentazon	25057890					2.0
Benzo(a)pyrene	50328					0.1
Carbofuran	1563662					5.0

<b>Table 2 - Title 22 Pollutants</b>						
<b>Pollutant</b>	<b>CAS No.</b>	<b>No. of Analyses</b>	<b>Analytical Results (µg/L)</b>			<b>DLR (µg/L)</b>
			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
Chlordane	57749					0.1
2,4 D	94757					10
Dalapon	75990					10
Dibromochloropropane	96128					0.01
Di(2-ethylhexyl)adipate	103231					5.0
Di(2-ethylhexyl)phthalate	117817					3.0
Dinoseb	88857					2.0
Diquat	85007					4.0
Endothall	145733					45
Endrin	72208					0.1
Ethylene Dibromide	8003074					0.02
Glyphosate	1071836					25
Heptachlor	76448					0.01
Heptachlor Epoxide	1024573					0.01
Hexachlorobenzene	118741					0.5
Hexachlorocyclopentadiene	77474					1.0
Lindane	58899					0.2
Methoxychlor	72435					10
Molinate	2212671					2.0
Oxamyl	23135220					20
Pentachlorophenol	87865					0.2
Picloram	1918021					1.0
PCBs	1336363					0.5
Simazine	122349					1.0
Thiobencarb	28249776					1.0

<b>Table 2 - Title 22 Pollutants</b>						
<b>Pollutant</b>	<b>CAS No.</b>	<b>No. of Analyses</b>	<b>Analytical Results (µg/L)</b>			<b>DLR (µg/L)</b>
			<b>MDL</b>	<b>RL or RDL</b>	<b>Highest Measured Concentration</b>	
Toxaphene	8001352					1.0
2,3,7,8 TCDD (Dioxin)	1746016					5 x 10 <sup>-6</sup>
2,4,5 TP (Silvex)	93721					1.0

<b>Table 3 - Fuel Oxygenates and Other Pollutants In Untreated/Contaminated Groundwater</b>						
Pollutant	CAS No.	No. of Analyses	Analytical Results (µg/L)			ML (µg/L)
			MDL	RL or RDL	Highest Measured Concentration	
Methyl Tertiary Butyl Ether (MTBE)	1634044					0.5
Di-Isopropyl Ether (DIPE)	10823					0.5
Tertiary Amyl Methyl Ether (TAME)	994058					0.5
Ethyl Tertiary Butyl Ether (ETBE)	637923					0.5
Tertiary Butyl Alcohol (TBA)	75650					5.0
Methanol	67561					1,000
Ethanol	64175					5.0
Total Petroleum Hydrocarbons						
					<b>Range of Measured Concentrations</b>	
Specific Conductance (µmhos/cm)						-
Total Dissolved Solids (mg/L)						-
pH (pH units)						-
Hardness (mg/L CaCO <sub>3</sub> )						-
Boron (mg/L)						-